





CURRENT DETECTING DEVICE**Publication number:** JP2001165963**Publication date:** 2001-06-22**Inventor:** OTSUKA KOJI**Applicant:** SANKEN ELECTRIC CO LTD**Classification:****- international:** G01R15/20; H01L43/06; G01R15/14; H01L43/06;
(IPC1-7): G01R15/20; H01L43/06**- European:** H01L43/06B**Application number:** JP19990350063 19991209**Priority number(s):** JP19990350063 19991209**Also published as:**

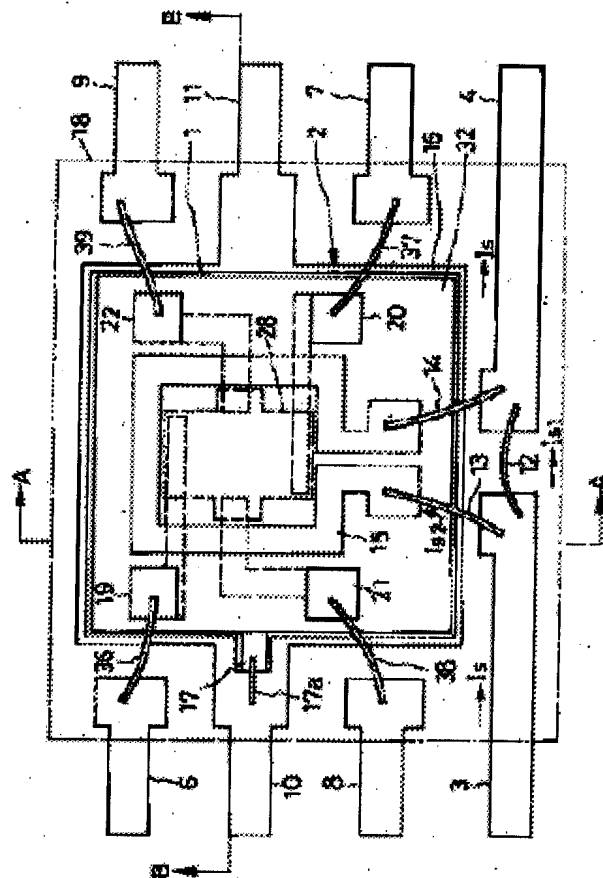
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|---|----------------|
|  | EP1107328 (A2) |
|  | US6462531 (B1) |
|  | EP1107328 (A3) |
|  | EP1107328 (B1) |

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Abstract of JP2001165963

PROBLEM TO BE SOLVED: To solve such problem that detection of a large current with high accuracy using a Hall element was difficult.

SOLUTION: A conductor layer 15 as a current passage is placed on an insulating film 32 of the surface of a semiconductor base constituting a Hall element 1. This conductor layer 15 is placed, so as to surround a main operation area of the Hall element 1. The Hall element 1 and terminals 3, 4 of first and second current passages are molded with a common resin-sealing substance 18 as a unit. A wire 12 is connected as a current passage for a first resistor R1 between the terminals 3, 4 for the first and second current passages, and also the conductor layer 15 by wires 13, 14 for forming the second current passage.



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EP1107328

Family list**6 family members for: JP2001165963**





Derived from 4 applications

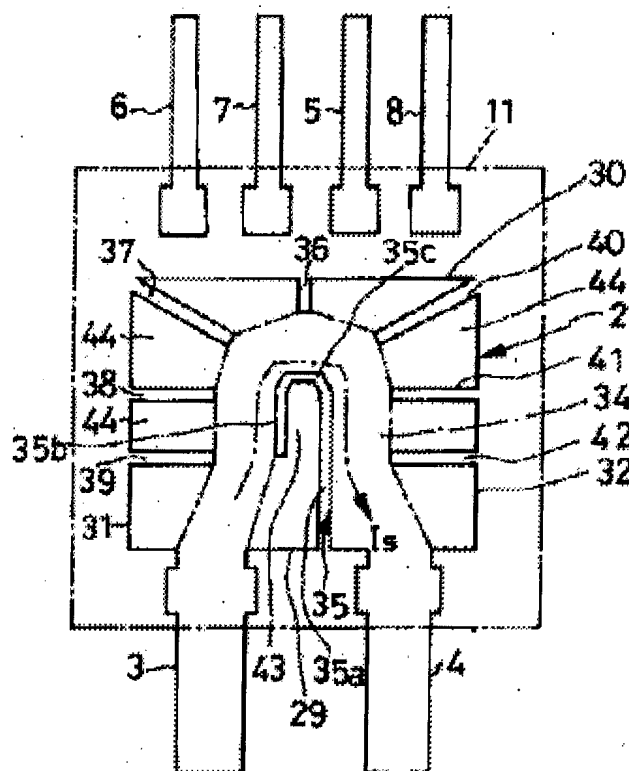
[Back to JP2001165](#)

- 1 Current detector having a hall-effect device**
Inventor:
EC: H01L43/06B
Publication info: DE60027257D D1 - 2006-05-24
Applicant:
IPC: G01R15/20; H01L43/06; G01R15/14 (+1)
- 2 Current detector having a hall-effect device**
Inventor: OHTSUKA KOJI (JP)
EC: H01L43/06B
Publication info: EP1107328 A2 - 2001-06-13
EP1107328 A3 - 2004-10-13
EP1107328 B1 - 2006-04-12
Applicant: SANKEN ELECTRIC CO LTD (JP)
IPC: G01R15/20; H01L43/06; G01R15/14 (+3)
- 3 CURRENT DETECTING DEVICE**
Inventor: OTSUKA KOJI
EC: H01L43/06B
Publication info: JP2001165963 A - 2001-06-22
Applicant: SANKEN ELECTRIC CO LTD
IPC: G01R15/20; H01L43/06; G01R15/14 (+3)
- 4 Current detector having a hall-effect device**
Inventor: OHTSUKA KOJI (JP)
EC: H01L43/06B
Publication info: US6462531 B1 - 2002-10-08
Applicant: SANKEN ELECTRIC CO LTD (US)
IPC: G01R15/20; H01L43/06; G01R15/14 (+2)

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CURRENT DETECTOR WITH HALL ELEMENT**Publication number:** JP2001174486**Publication date:** 2001-06-29**Inventor:** OTSUKA KOJI**Applicant:** SANKEN ELECTRIC CO LTD**Classification:****- international:** *H01L43/04; G01R15/20; H01L43/06; H01L43/00; G01R15/14; H01L43/06; (IPC1-7): G01R15/20; H01L43/04***- European:** H01L43/06B**Application number:** JP19990361178 19991220**Priority number(s):** JP19990361178 19991220**Also published as:**

| | |
|---|----------------|
|  | EP1111693 (A2) |
|  | US6683448 (B1) |
|  | EP1111693 (A3) |
|  | EP1111693 (B1) |

[Report a data error here](#)**Abstract of JP2001174486****PROBLEM TO BE SOLVED:** To easily detect a large current with the use of a Hall element.**SOLUTION:** A metallic supporting plate 2 for supporting the Hall element is set. Grooves 35-42 are formed on the supporting plate 2 and a current path 34 is set. A primary operating region of the Hall element is arranged inside the U-shaped current path 34.Data supplied from the **esp@cenet** database - Worldwide*EP 1111693*

